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(54) **VARIABLE FOCUS SPECTACLES**

(57) Abstract:

PURPOSE: To obtain the variable focus spectacles capable of freely varying those focal lengths corresponding to eye movement in any direction.

CONSTITUTION: Sensors 14 and 15 fixed to a spectacle frame 13 detect variation in skin potential accompanying the right-left motion of the sight of the right eye and sensors 16 and 17 detect variation in skin potential accompanying the right-left motion of the sight of the left eye. Further, sensors 18 and 19 detect variation in skin potential accompanying the up-down motion of the sight of both the eyes. The output voltages of those sensors are inputted to a control box 23, where lens driving voltages to be applied to variable-focal liquid crystal lenses 11 and 12 are calculated by a differential amplifier, an arithmetic circuit, etc. The variable-focal liquid crystal lenses 11 and 12 vary in focal length with those lens driving voltages to accurately form an image of a gazed point on the retinae of a spectacle wearing person.

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